

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	309	3.6*	0.080	0.067*	0.073	0.087*
Deposition to the country						
Total deposition to the country, t	136.74	25.40	0.98	0.57	0.29	0.28
- Anthropogenic deposition from national sources, t	62.76	0.52	0.01	0.01	0.01	0.01
- Anthropogenic deposition from other countries, t	41.64	3.14	0.35	0.12	0.07	0.04
- Intercontinental transport (non-EMEP sources), t	2.64	2.54	0.04	0.06	0.20	0.23
- Secondary sources (wind re-suspension), t	29.69	19.20	0.57	0.37	0.01	0.01
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	153.93	2.08	0.05	0.04	0.02	0.02
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.76	0.01	0.22	0.22	0.05	0.08
- Black Sea	3.79	0.03	0.98	0.60	0.22	0.18
- Caspian Sea	0.19	0.003	0.05	0.04	0.02	0.02
- Mediterranean Sea	44.39	0.44	9.46	8.70	2.18	3.23
- North Sea	0.69	0.01	0.16	0.09	0.04	0.05
Mean annual air concentrations, ng/m <sup>3</sup>	30.17	1.47	0.12	0.04	1.54	1.45

\* expert estimates

## POP emissions and pollution levels in 1990 and 2013

	B[a]P		PCDD/Fs		HCB	
	1990	2013	1990	2013	1990	2013
Emissions	t		g TEQ <sup>a</sup>		kg	
	3.7	3.4 <sup>b</sup>	2.6	2.8 <sup>b</sup>	59	9.6 <sup>b</sup>
Deposition to the country	kg		g TEQ		kg	
Total deposition to the country	999.7	861.4	221.7	78.4	601.3	44.8
- Anthropogenic deposition from national sources	551.6	561.2	4.2	4.7	12.9	1.9
- Anthropogenic deposition from other countries	363.8	222.1	45.9	22.4	1.9	0.4
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	27.0	11.1	193.4	14.9
- Secondary sources (re-volatilization) <sup>d</sup>	84.3	78.2	144.2	40.3	393.1	27.6
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	634.5	647.1	5.8	5.9	15.8	2.5
Deposition to the regional seas						
- Baltic Sea	2.67	2.13	0.01	0.01	8.6E-03	2.4E-03
- Black Sea	5.13	4.27	0.03	0.04	5.3E-02	1.2E-02
- Caspian Sea	0.10	0.15	0.00	0.01	1.5E-02	2.3E-03
- Mediterranean Sea	106.00	99.76	0.80	0.91	1.6E+00	3.2E-01
- North Sea	0.44	0.72	0.00	0.01	7.6E-03	1.9E-03
Mean annual air concentrations	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.47	0.38	12.60	6.72	186.8	15.75

<sup>a</sup> Toxicity of PCDD/Fs is expressed according to the NATO toxic equivalents scheme (I-TEQ)

<sup>b</sup> Expert estimate

<sup>c</sup> Model assessment of B[a]P pollution was focused on the emission sources of the EMEP countries neglecting the intercontinental transport

<sup>d</sup> Estimates of secondary sources contribution for B[a]P represent re-volatilization fluxes resulted from the accumulation of pollutant during one year